

OWNER'S MANUAL



Overall Length61½ inHull Length55 inBeam14¾ inWeight14.5 lbSpeed39+ mphEngineZenoah G26 MarinePropellerPrather 270Radio SystemJR XR3i (FM)

PRB2686





MADE IN CHINA © 2005 Horizon Hobby, Inc. www.horizonhobby.com

7672

7672_PRB_shockwave55ss_manual2.indd 16-1 6/23/05 9:28:06 AM



Table of Contents Introduction. Warning.. Additional Required Items Suggested Field Equipment and Supplies. Section 1: Boat Stand Assembly Section 2: Removing the Canopy Section 3: Installing the Radio System Batteries 4–5 Section 4: Installing the Wing. Section 5: Installing the Rudders Section 6: Installing the Rudder Stabilizer. Section 7: Propeller Balancing. Section 8: Filling the Fuel Tank Section 9: Range Checking the JR XR3i Radio System... 7–8 Section 10: Starting the Engine. Section 11: Stopping the Engine Section 12: Handling Adjustments Section 13: Cooling System Section 14: Clutch Section 15: Troubeshooting Guide. Section 16: Hull Care. Section 17: Maintenance Section 18: Flex Shaft Lubrication 11-12 Section 19: Replacement Parts Appendix .. 13 Other Items. Notes....

Introduction

Congratulations on the purchase of your Pro Boat™ ShockWave™ 55 Super Sport Deep-V. You are just minutes from one of the most thrilling experiences the radio control hobby has to offer.

The Pro Boat ShockWave 55 SS is a professionally built, ready-to-run deep-V fiberglass model. Powered by the potent Zenoah® G26M engine, you will be able to race across the water at scale speeds in excess of 300 mph!

Read this owner's manual thoroughly. You also need to read the included Zenoah G26 engine manual, along with the JR $^\circ$ XR3i radio system manual.

It is very important that you operate this boat responsibly. With proper care and maintenance, you will be able to enjoy your ShockWave 55 SS for many years to come.

Carefully unpack your ShockWave 55 SS and examine the boat and its contents. The box should contain the ShockWave 55 SS RTR with radio installed, a boat stand, and the JR XR3i radio transmitter. If you are missing any of these items or notice any damage, immediately contact the place of purchase.

WARNING

This boat is not a toy! It is a high performance RC model boat. Do not take risks that could endanger you or others.

Before operating your model, make sure your frequency is clear. If someone else is operating on the same frequency, both models could go out of control, possibly causing damage to the models, as well as to others.

Be certain to check all of the hardware, exhaust system, and propeller, making sure that all are secure $\underline{\text{before}}$ and $\underline{\text{after}}$ each run.

Always stay clear of the propeller when the engine is running!

When you first begin to run your ShockWave 55 SS, place in water with engine running at approximately ¼ throttle. Slowly increase throttle until boat accelerates onto plane. Gradually increase throttle to no more than ½ until you become more familiar with the boat.

When operating this model, stay clear of people, full-sized boats, stationary objects, and wildlife. Also, watch out for fishing lines that could get tangled in the propeller. It is preferable to operate the

Pro Boat ShockWave 55 SS in low wake, low wind conditions. If you choose to run your ShockWave 55 SS in salt water, thoroughly rinse the entire boat with fresh water and spray a silicone lubricant over the metal components to eliminate corrosion. You should also lubricate the flexshaft at this time (see Section 17 Maintenance for details). If at any time while operating your ShockWave 55 SS you sense any abnormal function, end your operation immediately. Do not operate your ShockWave 55 SS again until you are certain the problem has been corrected.

Service Center Information

If you have any questions regarding the Pro Boat ShockWave 55 SS, please contact the Horizon Service Center:

Horizon Service Center 4105 Fieldstone Rd. Champaign, IL 61822 1-877-504-0233

Additional Required Items

Although the ShockWave™ 55 SS comes fully assembled and ready for action, you will need a few additional items in order to run your boat. You will need the following:

Zenoah® 2-Cycle Oil (ZEN20001)

CA or epoxy glue

Flex Shaft lubrication (see local hobby store)

Fuel container

Fuel Pump (HAN155)

12 "AA" alkaline batteries (8 for the transmitter and 4 for the receiver)

Gasoline (+87 Octane) ethanol-free

Suggested Field Equipment and Supplies

In addition to the items needed to run the ShockWave 55 SS, we recommend that you carry the following in your field box:

Engine Tuning Screwdriver (DYN2775)

Clean towels

Extra Propellers (PRAB270)

2mm hex wrench

2.5mm hex wrench

4mm hex wrench

#1 Phillips

Small crescent wrench

Wax

Screw-locking compound

Contents

- Assembled ShockWave 55 SS RTR
- JR® XR3i radio transmitter
- Boat stand
- Rudder (2)





Section 1: Boat Stand Assembly

There are 4 plywood boat stand pieces. The 2 short plywoo
pieces are the ends of the boat stand.

Secure the 2 long plywood pieces of the interlocking boat stand to one end of the short plywood pieces. Repeat with the remaining short plywood pieces.

Secure the stand together where each piece is joined with epoxy or CA glue (not included).



Section 2: Removing the Canopy

Unscrew the 2 knurled hatch-mounting screws from the rear of the hatch. Slide the front hatch retainer toward the rear of the boat and lift the hatch from the boat.

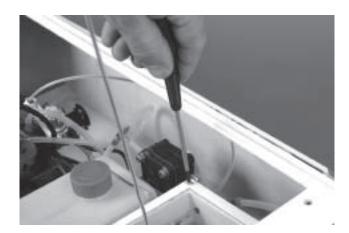


Section 3: Installing the Radio System Batteries

Receiver Batteries

Remove the 10 2.5mm hex head screws that secure the clear Lexan radio box cover.

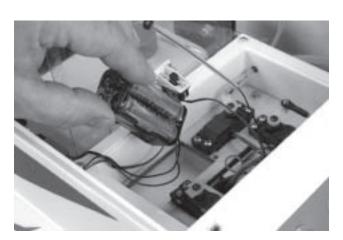
Remove the receiver battery holder and install 4 "AA" alkaline batteries in the battery holder. Note proper polarity.



Section 3: Installing the Radio System Batteries (cont.)

Reinstall the battery holder into the radio compartment.

Secure the radio box cover with the 6 Phillips screws.



Transmitter Batteries

Remove the transmitter from the box.

Remove the battery cover on the bottom of the transmitter.

Insert 8 "AA" alkaline batteries into the battery holder. Note proper polarity.

Turn on the transmitter and confirm that the LCD illuminates, indicating proper installation of fully charged batteries.

Turn on the receiver switch and move the controls. Confirm that all controls operate in the proper direction and are controlled by the proper transmitter input.

Turn the transmitter and the receiver switch off. To keep the boat from receiving stray signals, the transmitter should be turned on first, followed by the receiver. Likewise, the receiver should be turned off first, then the transmitter.



Section 4: Installing the Wing

Install the wing in the direction shown.

Install the four 3mm x 20mm hex head screws and secure with the four 3mm nuts.

Apply screw-locking compound to the threads to lock the nuts in place.

NOTE: The wing is not intended to be a handle.

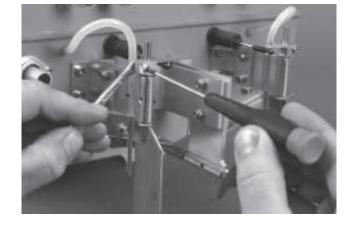


4

5

Section 5: Installing the Rudders

Carefully remove the rubber bands holding the rudder control arms and the nylon rudder bushings in place.
Slide the rudders into the rudder struts with a bushing above and below the strut.
Position the rudder control arms at a 90-degree angle to the rudder as shown and tighten the 3mm x 15mm hex screws, securing them with 3mm nuts.
Apply screw-locking compound to the threads to lock the nuts in place.

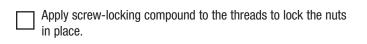


NOTE: The twin-oversized rudders offer incredible handling and eliminate the need for skid fins. They also help protect the propeller from impact with submerged obstacles in the water. Care must be taken in shallow water to keep the rudders from becoming damaged.

Section 6: Installing the Rudder Stabilizer

Ш	centered.	
	Position the rudder stabilizer arms as shown with the pointing away from the transom.	control arms
	Tighten the 3mm x 15mm hex screws, securing them 3mm nuts.	n with

Turn on the radio system and confirm that the steering trim is



NOTE: Be sure that the rudders are parallel with one another and centered.



Section 7: Propeller Balancing

For optimum performance, propeller balancing can add several mph to top speed and reduce vibration. There are several different propeller balancing tools available. Read the instructions that accompany the propeller balancing tool as removing material from the correct part of the propeller is crucial. Contact a local hobby retail store for assistance.



6

Section 8: Fueling the Tank

Use only Zenoah® 2-Cycle Synthetic Oil and premium gasoline mixed 32:1 to power the ShockWave™ 55 Super Sport. Fill the tank completely and secure the fuel cap. Keep fuel in a moisture-free environment, as stale fuel will cause the Zenoah® G26M engine to lose performance.



Section 9: Range Checking the JR XR3i Radio System

Before the first run of the ShockWave 55 SS, you should check the radio for proper operation and to ensure proper control movement of the rudder and throttle. Also ensure that the antenna on the boat is extended properly and that all batteries are in working condition.

- 1. With the radio system turned on (transmitter and receiver) and the transmitter antenna down (engine off), walk off 40 to 50 paces from the ShockWave 55 SS.
- 2. Have an assistant remain with the boat to check for proper control movement of the rudder from your transmitter input.
- 3. If everything appears to be operating correctly, raise the antenna and start the engine. Place the boat in the water and run it (at about ½ throttle) close to the shoreline. If the radio system is operating properly, you can begin to run the boat faster and further away from the shoreline.

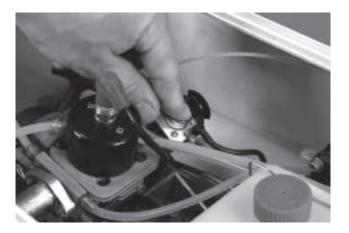
Note: It is a good idea to range check prior to operating your boat after any repair, installation of new batteries, or at the beginning of each boating season.

Section 10: Starting the Engine

NOTE: The Zenoah G26M carburetor is factory adjusted to deliver optimum performance. See the Zenoah Engine manual for fine-tuning adjustments and other helpful information to make your RC boating experience trouble-free.

Priming the Engine

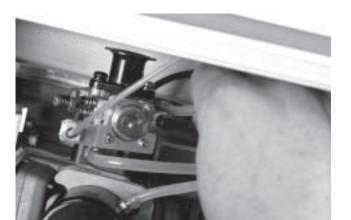
Press the priming bulb several times until it becomes filled with fuel. This is not necessary if the engine has recently been run.



. 7

Choking the Engine

Close the choke by rotating the small yellow tubing extension. This is not necessary if the engine is warm.



Pull-starting the Engine

With an assistant holding the boat to the boat stand and bracing the engine with one hand, pull the starting cord briskly several times. Once the engine fires (begins to start), open the choke. Prolonged choking will flood the engine with fuel. See Section 15: Troubleshooting Guide to correct the flooding condition.



NOTE: The engine is water-cooled. Refrain from running the engine without proper cooling water or engine damage will result. Carefully, place the boat in the water as soon as possible after the engine has been started.

Section 11: Stopping the Engine

Idle the boat near shore and press the kill switch located through the hole in the hatch as shown.



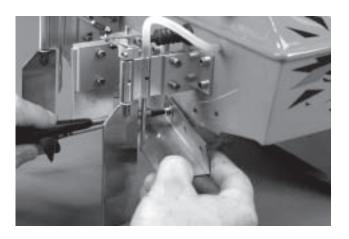
Section 12: Handling Adjustments

Trim Tabs

On smooth water conditions, the trim tabs may be bent up further or removed to increase top speed performance. Be sure to reinstall the trim tab mounting bolts to keep water from entering the boat. Be aware that the boat may become less stable and may "blow over" with the increased speed.

Propeller Trim Angle

You may also adjust the propeller strut to add up or down trim to the propeller by loosening the 2 propeller strut bolts and sliding the propeller strut up to increase top-end speed (but steering response will decrease). Lowering the trim angle will increase handling performance (but may cause the boat to over-steer and decrease speed).



Section 13: Cooling System

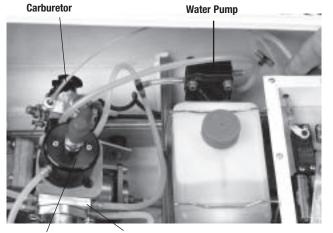
Water Pump

The water pump is operated from crankcase pressure. Be sure that water is exiting the 2 water jackets mounted on the left side of the boat when the engine is running and the boat is in the water. If water does not stream out of either the exhaust or cylinder head cooling ports, immediately stop engine operation and remove obstructions in the lines or replace broken cooling lines.

Hint: To test each cooling line for obstructions or a leak in the cooling system, place a piece of tubing over the water inlet tube in front of each rudder and blow into the tube. When testing for obstructions in the cooling system, be sure to isolate each system by pinching the appropriate water lines.

Water-Cooled Cylinder Head and Exhaust Manifold Cooling Jacket

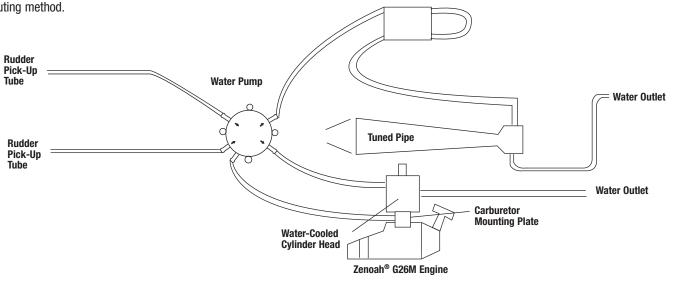
The exhaust system is cooled independently from the cylinder head. See photo for proper cooling line routing. Do not alter the cooling line routing method.



Water-Cooled

Tuned Pipe Fitting

Tuned Pipe Fitting

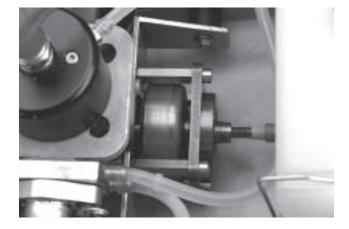


7672_PRB_shockwave55ss_manual2.indd 8-9 6/23/05 9:28:19 AM

Section 14: Clutch

The centrifugal clutch automatically engages when the engine rpm is increased. Be sure that the idle speed adjustment is set low enough so that the propeller does not rotate at idle.

Periodically disassemble the clutch and clean debris from the clutch shoes and the inner clutch bell with DYN5505 Dynamite® Nitro Force.





Section 15: Troubleshooting Guide

Problem	Possible Solution
Engine will not start	Improper needle setting: see Zenoah® Engine Manual Out of fuel: fill fuel tank Improper fuel: use fresh Gasoline & Zenoah 2-Cycle Oil (mixed 32 parts gas to 1 part oil) Bad Spark plug: replace Flooded engine: remove spark plug, invert boat and operate the pull-starter to remove fuel
Engine starts, then dies	Fuel line blocked or broken: connect or replace fuel line Reset needles to baseline setting: see Zenoah instructions Baseline settings for low and hi-speed needle valves is 1–1 ¹ / ₄ turns out
Engine starts and runs for several minutes, then dies	Bad fuel: replace Improper needle settings: see Zenoah Engine Manual Overheated engine: check for clogged or damaged cooling system Debris in carburetor: remove, clean and replace

10

Section 16: Hull Care

The hull of the ShockWave™ 55 Super Sport is finished using the highest quality paints and the most advanced painting methods available. The base coat/clear cote technique delivers an amazing shine that is as durable as it is beautiful. To keep your ShockWave 55 Super Sport looking new, you should apply a wax coating as used on automotive finishes to prevent oxidation and to further protect against damage caused by fuel and other harmful chemicals



Section 17: Maintenance

The Pro Boat™ ShockWave 55 SS should provide many hours of exciting high-speed racing fun with just minor maintenance. Preventative maintenance is very important. Taking the time to ensure that all the set screws and bolts are tight before each operation of the boat will prevent many problems.

Before operating ShockWave 55 SS:

Check that all screws and hardware are securely in place. This is very important, as the manifold screws will occasionally vibrate loose during the initial runs.

Check the propeller for damage in the form of chipping or cracking. If you find any damage, replace the propeller, as the damage will effect

the performance of the boat and could also cause safety concerns. When refueling, always wipe away any excess fuel that may have spilled into or on the boat.

After operating the ShockWave 55 SS:

Wipe off any exhaust residue from the boat. If you operate the ShockWave 55 SS in salt water, it is suggested that you thoroughly rinse the deck, hull, and all the metal hardware with fresh water, then dry them with a clean towel. After cleaning, coat all metal parts with a silicone spray lubricant. This will help to prevent corrosion.

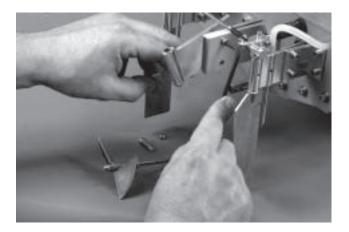
Ensure that the radio box and equipment inside is dry.

Section 18: Flex Shaft Lubrication

Loosen the 2–1.5mm set screws on the brass ferrule located in front of the propeller strut and remove the propeller shaft assembly from the rear. Note that there is a nylon bushing located on either end of the propeller strut.



Remove the lower propeller strut mounting bolt and loosen the top bolt. Rotate the propeller strut upwards to access the flex shaft.

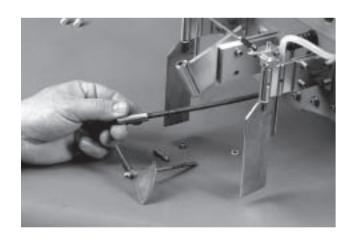


7672_PRB_shockwave55ss_manual2.indd 10-11 6/23/05 9:28:22 AM

Section 18: Flex Shaft Lubrication (cont.)

Slide the flex shaft out of the boat.

Lubricate the flex shaft with flex shaft grease (see your local hobby shop). Reinstall in reverse order. Be sure to reinstall the nylon washers in front and behind the propeller strut.





Section 19: ShockWave 55 SS Replacement Parts

In the event that you need to purchase replacement parts for your engine or the ShockWave[™] 55 SS, please see your local hobby store. You can also purchase them from Horizon Hobby by calling **1-800-338-4639** or shop online @ www.horizonhobby.com

Stock #	Description				
PRB2685	Hull Only	PRB2667	Exhaust Port	PRB2683	Clutch
PRB2652	Wing	PRB2668	Canopy Mounting Nut	PRB2651	Water Pump with Bracket
PRB2653	Canopy	PRB2669	Pushrod Bellow	PRB2684	Instruction Manual
PRB2654	Driver	PRB2670	Rudder Pushrods	PRB2686	Clutch Shoes
PRB2655	Servo Tray	PRB2671	Rx Switch Mount	PRB2687	Clutch Springs
PRB2656	Boat Stand	PRB2672	Flex Shaft	PRB2688	Clutch Bearing
PRB2657	Radio Box Cover	PRB2673	Teflon Liner	PRB2689	Prop Strut with Bracket
PRB2658	Fuel Tank	PRB2281	Drive Dog	PRB2690	Prop Shaft Nylon Bushing
PRB2659	Kill Switch	PRB2675	Rudder Strut with Bracket	PRB2691	Exhaust Spring
PRB2660	Motor Mounting Plates	PRB2676	Rudder Control Arm	PRB2692	Throttle Cable Mount
PRB2661	Manifold Cooling Plate	PRB2677	Rudder	PRB2693	Fuel Tank Straps
PRB2662	Manifold	PRB2678	Windshield	PRB2694	Stuffing Box
PRB2663	Throttle Cable	PRB2679	Cooling Tubing	PRB2674	Propeller Nut
PRB2664	Radio Box	PRB2680	Ball Linkage Set	PRAB270	Propeller; 2.74x4.2 Bronze
PRB2665	Vibration Dampener	PRB2681	Trim Tabs	PRB2008	Prop Shaft
PRB2666	Tuned Pipe	PRB2682	Decal	PRB2068	Water Outlet

Appendix

Photo 1

PRB2657 PRB2661 PRB2665 PRB2665 PRB2665 PRB2665 PRB2664

Photo 4

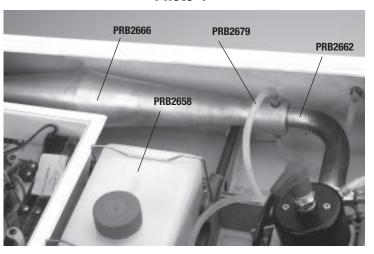


Photo 2

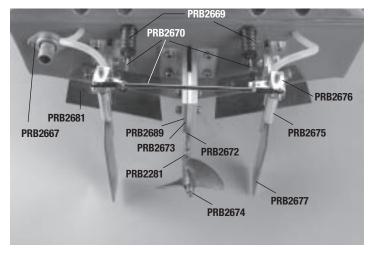


Photo 4

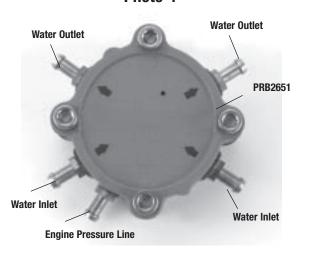


Photo 3

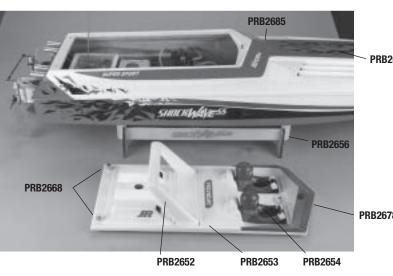
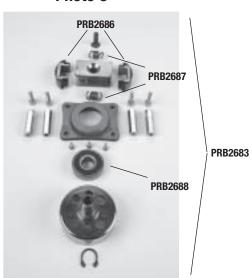


Photo 6



12 -

- 4

Look for these other fine Pro Boat[™] models at your local hobby dealer.



- Prather propeller
- Stainless steel and aluminum running hardware
- JR® Python radio system
- Water-cooled Dynamite® .32 Marine engine w/ pull-start
- Pre-painted fiberglass hull
- Speeds of up to 35 mph

PRB2050 ShockWave™ 36 Deep-V RTR



- Sleek, stylish fiberglass airboat design
 Easy engine access for starting and tuning
 Evolution .46 engine is air-cooled, easy-to-start and packs plenty of power
- Pro Boat™ 2-channel AM radio included
- Protective shroud offers added safety without affecting performance

PRB2700 Vortex™ .46 RTR Nitro Airboat

- Attractive display stand and decal sheet included
- 2-stick FM radio system with proportional throttle and steering
- Authentic barrel-back design
 Highly detailed hull, dashboard, interior and more Real Wood trim layered on a fiberglass hull



PRB2600 Classic Runabout EP RTR

- Preinstalled JR® Beat Gear 2-stick 2-channel system with sail winch
- Handcrafted fiberglass
- composite hull

 Detachable 2-piece mast of anodized aluminum
- Assembles in under 2 hours
 • Length: 36 inches



PRB2400 Sanibel™ 36-600 RTR Sailboat

- Bright yellow color scheme
- Reliable and easy-to-start Dynamite .15 engine
- Fiberglass hull
- Ready to run, right from the box



PRB2500 Miss Llumar 1/12 Hydro RTR

- JR Radio System Waterproof ESC
- 550-size motor

PRB2150 ShockWave 26 EP RTR

